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Group Art Unit: 2174
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FROM: J.B.KRAFT
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SN 845,463 Docket No AUS920010219 Atty: JBKRAFT
Docket No. 845,463
Applicant: C. N. Ulman et al.

<input checked="" type="checkbox"/> Transmittal Letter (2 copies)	<input type="checkbox"/> Certificate of Facsimile
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Deposit Acct. No. 09-0447

Fees: Amendment ☐ Notice of Appeal ☐ Appeal Brief ☐ Other ☐

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DOCKET NUMBER: AUS920010249US1

Date: 5-17-04

In re application of: C. N. Ulmann et al.

Serial No.: 09/845,463

Filed: April 30, 2001

For: PROVIDING ALTERNATE ACCESS FOR PHYSICALLY IMPAIRED USERS TO ITEMS NORMALLY DISPLAYED IN DROP-DOWN MENUS ON USER-INTERACTIVE DISPLAY INTERFACES

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith is a Response in the above-identified Application.

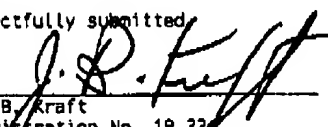
☒ No additional fee is required.☐ The fee has been calculated as shown below:

Claims Remaining After Amendment	Highest No. Previously Paid For	Present Extra	Rate	Addit. Fee
Total 27	MINUS 27	= 0	x 18 =	\$0
Indep. 3	MINUS 3	= 0	x 86 =	\$0
1st Presentation of Multiple Dep. Claim				x 290 = \$0
TOTAL				\$0

☐ Please charge my Deposit Account No. 09-0447 in the amount of \$_____. A duplicate copy of this sheet is enclosed.☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account 09-0447. A duplicate copy of this sheet is enclosed.☒ Any additional fees required under 37 CFR §1.16 for the presentation of extra claims.☒ Any patent application processing fees under 37 CFR §1.17.

Respectfully submitted,

By


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MAY 17 2004

PATENT
09/845,463

OFFICIAL

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: : Group Art Unit: 2174

: Examiner: J. Golinkoff

Cristi N. Ullmann et al. : Intellectual Property

Serial No: 09/845,461 : Law Department - 4054

Filed: 4/30/2001 : International Business

Title: PROVIDING ALTERNATE : Machines Corporation

ACCESS FOR PHYSICALLY : 11400 Burnet Road

IMPAIRED USERS TO ITEMS : Austin, Texas 78758

NORMALLY DISPLAYED IN DROP :

DOWN MENUS ON USER- :

INTERACTIVE DISPLAY :

INTERFACES :

Date: 5/17/04 :

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this correspondence including the present Amendment and accompanying Transmittal letter is being transmitted via facsimile to USPTO, Group Art Unit 2174 at telephone number 703-746-7239 and to the attention of Examiner Jordan Golinkoff on 5/17/04.

J. B. KRAFT

Signature

Date

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT

Sir:

AUS920010249US1

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In response to the Official Action mailed February 27, 2004, please amend the Application as follows.

Please amend the claims to read:

- 1 1. (currently amended) In a computer controlled user-inter-
2 active display system, a display interface implementation
3 for providing alternate access for physically impaired users
4 to items normally displayed in drop down menus comprising:
5 means for displaying a sequential set of drop down
6 menus, each having a plurality of selectable items;
7 selection means scrolled along each of said menus; and
8 means enabling a user to selectively display as an
9 alternative to said set of menus, a hierarchical arrangement
10 of selectable items corresponding to items in said set of
11 menus;
12 said hierarchical arrangement of items having a greater
13 spatiality than the spatiality of items in said drop-down
14 menus.
- 1 2. (original) The display interface implementation of claim
2 1 wherein:
3 the menus in said sequential set of drop down menus
4 sequentially vary from each other in scope; and
5 said alternative hierarchical arrangement of selectable
6 items is a tree of said items with sequential levels of
7 varying scope respectively corresponding to the varying
8 scope of said set of menus.
- 1 3. (original) The display interface implementation of claim
2 2 wherein said selectable items in said tree are icons.

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1 4. (original) The display interface implementation of claim
2 3 wherein said icons are varied in size so as to be opti-
3 mized to diminish the effects of the individual user's
4 impairment.

1 5. (original) The display interface implementation of claim
2 4 wherein said icons in said tree are varied in distance
3 from each other so as to be optimized to diminish the ef-
4 fects of the individual user's impairment.

1 6. (original) The display interface implementation of claim
2 4 further including:
3 means for tracking use characteristics of an individual
4 user; and
5 means responsive to said tracking means for dynamically
6 varying said sizes of said icons.

1 7. (original) The display interface implementation of claim
2 4 further including:
3 means for tracking use characteristics of an individual
4 user; and
5 means responsive to said tracking means for eliminating
6 rarely used icons from said tree.

1 8. (original) The display interface implementation of claim
2 6 wherein said means for tracking use characteristics of an
3 individual user includes:
4 means for counting the number of times that a plurality
5 of icons are selected; and
6 means responsive to said counting means for varying the
7 sizes of said icons relative to the selection counts of said
8 icons.

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1 9. (currently amended) A method for providing alternate
2 access for physically impaired users to items normally
3 displayed in drop down menus in computer controlled user-
4 interactive display systems comprising:
5 displaying a sequential set of drop down menus, each
6 having a plurality of selectable items;
7 enabling a user to select items from each of said menus
8 by scrolling along each of said menus; and
9 enabling a user to selectively display as an alterna-
10 tive to said set of menus, a hierarchical arrangement of
11 selectable items corresponding to items in said set of
12 menus;
13 said hierarchical arrangement of items having a greater
14 spatiality than the spatiality of items in said drop-down
15 menus.

1 10. (original) The method for providing alternate access for
2 physically impaired users of claim 9 wherein:
3 the menus in said sequential set of drop down menus
4 sequentially are varied from each other in scope; and
5 said alternative hierarchical arrangement of selectable
6 items is arranged in a tree of said items with sequential
7 levels of varying scope respectively corresponding to the
8 varying scope of said set of menus.

1 11. (original) The method for providing alternate access for
2 physically impaired users of claim 10 wherein said selectab-
3 le items in said tree are icons.

1 12. (original) The method for providing alternate access for
2 physically impaired users of claim 11 including the further
3 step of varying said icons in size to optimize said tree to
4 diminish the effects of the individual user's impairment.

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1 13. (original) The method for providing alternate access for
2 physically impaired users of claim 12 including the further
3 step of varying said icons in said tree in distance from
4 each other to optimize said tree to diminish the effects of
5 the individual user's impairment.

1 14. (original) The method for providing alternate access for
2 physically impaired users of claim 12 further including the
3 steps of:
4 tracking use characteristics of an individual user; and
5 dynamically varying said sizes of said icons responsive
6 to said tracking.

1 15. (original) The method for providing alternate access for
2 physically impaired users of claim 12 further including the
3 steps of:
4 tracking use characteristics of an individual user; and
5 dynamically eliminating rarely used icons from said
6 tree responsive to said tracking.

1 16. (original) The method for providing alternate access for
2 physically impaired users of claim 14 wherein said tracking
3 use characteristics of an individual user includes the steps
4 of:
5 counting the number of times that a plurality of icons
6 are selected; and
7 varying the sizes of said icons relative to the
8 selection counts of said icons.

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1 17. (currently amended) A computer program having program
2 code included on a computer readable medium for providing
3 alternate access for physically impaired users to items
4 normally displayed in drop down menus in computer controlled
5 user-interactive display systems comprising:
6 means for displaying a sequential set of drop down
7 menus, each having a plurality of selectable items;
8 selection means scrolled along each of said menus; and
9 means enabling a user to selectively display as an
10 alternative to said set of menus, a hierarchical arrangement
11 of selectable items corresponding to items in said set of
12 menus;
13 said hierarchical arrangement of items having a greater
14 spatiality than the spatiality of items in said drop-down
15 menus.

1 18. (original) The computer program of claim 17 wherein:
2 the menus in said sequential set of drop down menus
3 sequentially vary from each other in scope; and
4 said alternative hierarchical arrangement of selectable
5 items is a tree of said items with sequential levels of
6 varying scope respectively corresponding to the varying
7 scope of said set of menus.

1 19. (original) The computer program of claim 18 wherein said
2 selectable items in said tree are icons.

1 20. (original) The computer program of claim 19 wherein said
2 icons are varied in size so as to be optimized to diminish
3 the effects of the individual user's impairment.

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1 21. (original) The computer program of claim 20 wherein said
2 icons in said tree are varied in distance from each other so
3 as to be optimized to diminish the effects of the individual
4 user's impairment.

1 22. (original) The computer program of claim 20 further
2 including:

3 means for tracking use characteristics of an individual
4 user; and

5 means responsive to said tracking means for dynamically
6 varying said sizes of said icons.

1 23. (original) The computer program of claim 20 further
2 including:

3 means for tracking use characteristics of an individual
4 user; and

5 means responsive to said tracking means for eliminating
6 rarely used icons from said tree.

1 24. (original) The computer program of claim 22 wherein said
2 means for tracking use characteristics of an individual user
3 includes:

4 means for counting the number of times that a plurality
5 of icons are selected; and

6 means responsive to said counting means for varying the
7 sizes of said icons relative to the selection counts of said
8 icons.

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1 25. (original) The display interface implementation of claim
2 6 wherein said means for tracking use characteristics of an
3 individual user includes:

4 means for counting the number of times that a plurality
5 of icons are selected; and

6 means responsive to said counting means for varying the
7 locations of said icons in said hierarchical tree relative
8 to the selection counts of said icons.

1 26. (original) The method for providing alternate access for
2 physically impaired users of claim 14 wherein said tracking
3 use characteristics of an individual user includes the steps
4 of:

5 counting the number of times that a plurality of icons
6 are selected; and

7 varying the locations of said icons in said
8 hierarchical tree relative to the selection counts of said
9 icons.

1 27. (original) The computer program of claim 22 wherein said
2 means for tracking use characteristics of an individual user
3 includes:

4 means for counting the number of times that a plurality
5 of icons are selected; and

6 means responsive to said counting means for varying the
7 locations of said icons in said hierarchical tree relative
8 to the selection counts of said icons.

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